

Name: _____

at1113exam: Expand, factor, and solve quadratics (v209)

1. Solve the equation.

$$(7x + 6)(8x + 5) = 0$$

2. Expand the following expression into standard form.

$$(9x - 8)(9x + 8)$$

3. Expand the following expression into standard form.

$$(8x - 7)(5x + 9)$$

4. Expand the following expression into standard form.

$$(7x - 4)^2$$

5. Solve the equation with factoring by grouping.

$$18x^2 + 15x - 24x - 20 = 0$$

6. Factor the expression.

$$x^2 - 16x + 63$$

7. Factor the expression.

$$49x^2 - 81$$

8. Solve the equation.

$$9x^2 - 19x - 15 = 4x^2 - 2x - 3$$